

**Table 2: Papers and Presentations on IPS**

1. "In-Plane Switching of Nematic Liquid Crystals",  
Kiefer, S., Weber, B., Windscheid, F., and Baur, G.,  
Japan Display '92, (12<sup>th</sup> IDRC of SID) presentation P 2-30, pp. 547-550 (1992);
2. "Various Possibilities to Improve the Viewing Angle Characteristics of Nematic LCDs",  
Baur, G.,  
Proceedings of 22. Freiburger Arbeitstagung Flüssigkristalle, presentation No. 1 (1993);
3. "In-Plane Switching: A Novel Electrooptic Effect",  
Baur, G.,  
Proceedings of 23. Freiburger Arbeitstagung Flüssigkristalle, presentation No. 1, (1994);
4. "In-Plane Switching: Improvement of the Viewing Angle Characteristic by a Novel Electrooptic Effect",  
Baur, G., Kamm, M., Klausmann, H., Weber, B., Wieber, B., and Windscheid, F.,  
15th International Liquid Crystal Conference. Proceedings, presentation No. K-P15 (1994);
5. "Relationship between Display Quantity and Cell Parameters in the In-Plane Switching Mode of Nematic Liquid Crystals",  
Oh-e, M., Ohta, M., Kondo, K. and Oh-hara, S.,  
15th International Liquid Crystal Conference, Proceedings, presentation No. K-P17 (1994);
6. "Director Structures and Optical Properties of LC-Cells for In-Plane Switching",  
Dickmann, S., Eschler, J., and Mlynski, D.A.,  
Proceedings of 24. Freiburger Arbeitstagung Flüssigkristalle, presentation No. 02 (1995);
7. "Principles and Characteristics of Electro-Optical Behaviour with In-Plane Switching Mode",  
Oh-e, M., Ohta, M., Arantani, S., and Kondo, K.,  
Asia Display '95, 15th IDRC of SID, pp. 577-580 (1995);

8. "Development of Super-TFT-LCDs with In-Plane Switching Display Mode",  
Ohta, M., Oh-e, M., and Kondo, K.,  
Asia Display '95, 15th IDRC of SID, pp. 707-710 (1995);
9. "Wide Viewing Angle Displays with In-Plane Switching Mode of Nematic LCs  
Addressed by TFTs", (in Japanese)  
Kondo, K., Konishi, N., Kinugawa, K., and Kawakawi, K.,  
2nd International Display Workshop, Proceedings Vol. 2, pp. 43-?? (1995);
10. "In-Plane Switching A Novel Electro-Optic Effect",  
Baur, G., Kiefer, R., Klausmann, H., and Windscheid,  
Liquid Crystals Today, Vol. 2, No. 3, pp. 13-14 (1995);
11. "Electro-Optical Characteristics and Switching Behaviour of In-Plane Switching  
Mode"  
Oh-e, M. and Kondo, K.,  
Appl. Phys. Lett., 67, pp. 3895-3897 (1995);
12. "Hitachi Super TFT-LCD Offers 140° Viewing Angle",  
Tajima, Z., and Kinugawa, K.,  
Nikkei Electronics Asia March, (1996) pp. 73-76;
13. "Hitachi "Super-TFT" LCD Technology",  
Parfitt, J.,  
EID '95 (14.11.1995);
14. "Structure of the TFT-LCD utilizing the in-plane switching mode and its  
characteristics", (in Japanese, English translation available)  
Kondo, K., Ohta, M., and Oh-e, M.,  
Proceedings of the 43<sup>rd</sup> Applied Physics Related Joint Conference Symposium,  
26 p-K-2 (Toyo University, March 1996);
15. "Switching and Response Principles of the In-Plane Switching Mode",  
Oh-e, M., Ohta, M., and Kondo, K.,  
Proceedings of 25. Freiburger Arbeitstagung Flüssigkristalle, presentation  
No. 03 (1996);
16. "Super-wide viewing angle TFT by the IPS method" (in Japanese, English  
translation available),  
Kinugawa, K.,  
Electronic Display Forum '96 (Pacifico, Yokohama, April 18, 1996) pp. 1-29 -  
1-35;

17. "Wide-Viewing-Angle Displays with In-Plane Switching Mode of Nematic LCs Addressed by 13.3 in XGA TFTs",  
Kondo, K.,  
SID Int. Symp., Digest Vol. XXVII, presentation 8.1, pp. 81-84 (1996);
18. "2-D Simulations of In-Plane Switching Mode LCDs",  
Lien, A.,  
SID Int. Symp., Digest Vol. XXVII, presentation 13.3, pp. 175-178 (1996);
19. "Development of 13.3-inches Super TFT-LCD Monitor",  
Kasai, N., Furuhashi, T., Mano, M., Kurihara, N., Kato, N., and Mori, M.,  
SID Int. Symp. Digest, Vol. XXVII, presentation 26.4 L, pp. 414-417 (1996);
20. "Numerical Modelling of IPS Effects: A New Approach and More Results",  
Becker, M.E., Wöhler, H., Kamm, M., and Kreis, J.,  
SID Int. Symp., Digest Vol. XXVII, presentation LP-G, pp. 596-599 (1996);
21. "Super-TFT-LCD with Wide Viewing Angle", (in Japanese, English translation available)  
Konishi, N.,  
Semicon Kansai 96 FPD Technical Seminar (Intex Osaka, May 30 to 31, 1996)  
pp. 3-23 to 3-27;
22. "Super-TFT-liquid crystal display for the monitor", (in Japanese, English translation available)  
Tajima, Z.,  
Semicon Kansai 96 FPD Technical Seminar (Intex Osaka, May 30 to 31, 1996)  
pp. 4-19 to 4-21;
23. "Physical Behaviour of Nematic Liquid Crystals Using In-Plane Switching Mode",  
Oh-e, M., Ohta, M., and Kondo, K.,  
16<sup>th</sup> International Liquid Crystal Conference, Proceedings, presentation No. B1P.60, p. P-60 (1996);
24. "Response Mechanism of Nematic Liquid Crystals Using the In-Plane Switching Mode",  
Oh-e, M., and Kondo, K.,  
Appl. Phys. Letts., Vol. 69, No. 5, pp. 623-625 (1996);
25. "Elektrooptische Effekte für Moderne Multi-Media-Displays",  
Baur, G.,  
presentation at TU Berlin (18.6.1996);

26. "Wide Viewing-Angle Displays with In-Plane Switching Mode of Nematic LCs Addressed by TFTs",  
Ohta, K., Kondo, K., and Oh-e, M.,  
IEICE TRANS. ELECTRON, Vol. E79-C, No. 8, pp. 1069-1075 (1996);
27. "34-cm Super TFT-LCD with Wide Viewing Angle",  
Konishi, N., Kondo, K., and Mano, H.,  
Hitachi Review, Vol. 45, No. 4, pp. 165-172 (1996);
28. "Realization of a wide viewing angle LCD by the transverse electric field driving", (in Japanese, English translation available)  
Kondo, K.,  
Ohyo Butsuri (Applied Physics), 10 (1996), submitted;
29. "Electric Field Analysis in TFT-LCDs with In-Plane Switching Mode of Nematic LCs",  
Ohta, M., Yoneya, M., and Kondo, K.,  
Euro Display '96 (16<sup>th</sup> IDRC of SID) pp. 49-52 (presentation 5.1 and Conference Digest) (1996);
30. "Display Characteristics of In-Plane-Switching (IPS) LCDs and a Wide-Viewing-Angle 14.5 in IPS TFT-LCD",  
Matsumoto, S., Seyama, S., Ukai, Y., Unate, T., Moriya, M., Inada, T., and Saigusa, K.,  
Euro Display '96 (16<sup>th</sup> IDRC of SID) pp 445-448 (presentation LP-A and Conference Digest) (1996);
31. "Complete Suppression of Color Shift in In-Plane Switching Mode LCDs with a Multidomain Structure Obtained by Unidirectional Rubbing",  
Aratani, S., Klausmann, H., Ohta, M., Ashizawa, K., and Yanagawa, K.,  
Euro Display '96 (16<sup>th</sup> IDRC of SID) (Late news presentation, not printed in Conference Digest) (1996);
32. "In-plane switching TFT-LCD", (in Japanese, English translation available)  
Kondo, K.,  
The 3<sup>rd</sup> Conference for the Young Members in Liquid Crystal, Panel Discussion, "Recent developmental trends in LCD" (Kyushu University, October 4, 1996);

33. "Principle of the liquid crystal switching in the in-plane switching method", (in Japanese, English translation available)  
Oh-e, M. and Kondo, K.,  
The Second Liquid Crystal Symposium (Kyushu University, October 5 through 7, 1996) pp. 307-308;
34. "Wide Viewing Angle LCDs Based on In-Plane Switching",  
Baur, G.,  
Presentation at SID-MID EUROPE MEETING 07.11.'96, Proceedings (1996);
35. "Numerical Modelling of IPS-effect",  
Becker, M.,  
Presentation at SID-MID EUROPE MEETING 07.11.'96, Proceedings (1996);
36. "Neue Blickwinkel für TFTs" "Titelthema",  
Janzen, M., and Kutschke, A.,  
Design & Elektronik, 4 (20. Feb' 96) (1996) Sonderdruck, 3 pages;
37. "The TFT-LCD with the in-plane switching mode", (in Japanese, English translation available)  
Kondo, K., Oh-e, M., and Ohta, M.,  
Display and Imaging, Vol. 5, pp. 11-16 (1996).